



Hollow shaft encoder FGJ 40 – now available for inch dimension shafts

Robust encoder solution with highest accuracy and EMI immunity – also for 1:1 exchange of other brand encoders

Product benefits

- Optical hollow shaft encoder with high-precision scanning
- Robust design with extra large air gap between pulse disc and scanning
- Oversized hybrid ball bearings with high dynamic load rating for fail-safe operation – isolation against shaft currents
- For applications with inch dimension shafts
- Pulse disc made of highly durable and break-resistant polycarbonate
- Easy direct mounting via clamping ring
- High resolution up to 1 million ppr possible
- No signal interference from external magnetic fields (e.g. magnetic motor brakes)
- Precisely fitting torque brackets to reduce mounting errors
- Maximum signal quality for dynamic control
- Signal amplitudes HTL, TTL or Sin/Cos
- Flexible options, including electronic overspeed switch, second signal output, direct fiber optic signal output
- UL/CSA certified



Clamping ring and screw and additional threads for mounting a torque bracket

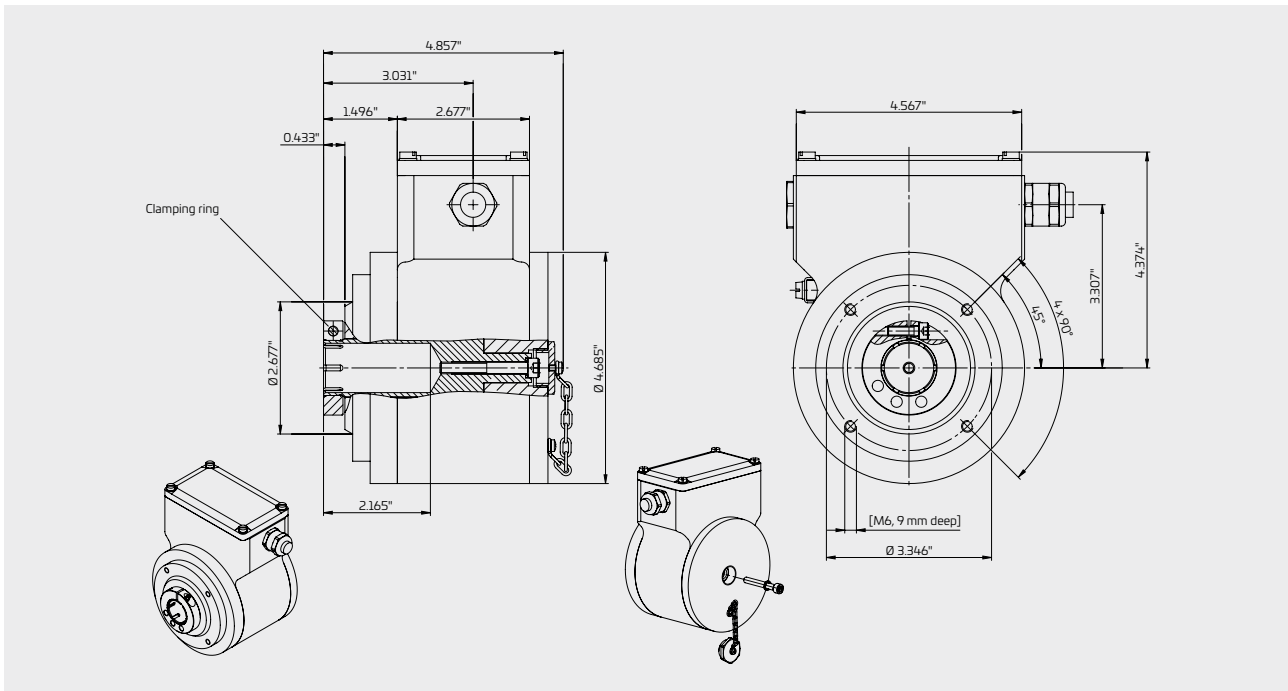


Optical scanning for high-precision signal quality and to avoid magnetic interferences



Various connection options (shown: EMC industrial connector)

Sample dimension drawing FGHJ 40 K



FGHJ 40 K FGHJ 40 K with blind hole hollow shaft with terminal box, cable gland and clamping ring

Options of connection sizes

Further mechanical accessories such as torque brackets available on request.

Type	0.375R	0.500R	0.625R	0.750R	0.875R	1.000R
Inch	3/8"	1/2"	5/8"	3/4"	7/8"	1"

Technical data

Series	FGHJ 40
Supply voltage	12 – 30 VDC (optional: 5 VDC)
Signal amplitude	HTL, TTL, Sin/Cos
Pulse rate	500, 600, 1000, 1024, 1200, 1300, 2000, 2048, 2400, 2500 ppr (HTL/TTL: Optional up to 1 Million ppr according to customer specification / on request)
Duty cycle	1:1 ± 3 %
Phase shift 0°, 90°	90° ± 3°
Output signals	0°, 90°, N, status and inverted signals
Max. speed/frequency	4,000 rpm / 200 kHz
Device temperature range	- 40 °C to +100 °C (UL/CSA: max. +70 °C)
Degree of protection	up to IP66 / IP67 (UL / CSA: Type 1)
Vibration resistance	up to 20 g acc. to DIN EN 60068-2-6
Shock resistance	up to 150 g acc. to DIN EN 60068-2-27
Certification	UL / CSA (E351535)